

Name _____

Date _____ Core _____

Math Properties

The **commutative property** shows that the _____
of the numbers does not change the answer to an
_____ problem.

Commutative Property	
Addition	Multiplication

The **associative property** shows that the _____
of the numbers does not change

Associative Property	
Addition	Multiplication

The **identity property** shows that the sum of any number
and _____ is that number and that the product of
any number and _____ is that number.

Identity Property	
Addition	Multiplication

Directions: Write the property that is represented by the given equation.

- $3 + 9 = 9 + 3$ _____
- $(7 \cdot 13) \cdot 5 = 7 \cdot (13 \cdot 5)$ _____
- $12 \cdot 4 = 4 \cdot 12$ _____
- $615 + 0 = 615$ _____
- $(x + y) + z = x + (y + z)$ _____
- $j \cdot 1 = j$ _____

Directions: Complete the equation to represent each property.

- Associative Property (x)
 $9(7 \times 8) =$ _____
- Multiplicative Inverse
 $3 \times \underline{\hspace{1cm}} = 1$
- Additive Identity
 $8 + \underline{\hspace{1cm}} = 8$
- Commutative Property (+)
 $12 + 90 =$ _____
- Multiplicative Identity
 $24 \times \underline{\hspace{1cm}} = 24$
- Additive Inverse
 $62 + \underline{\hspace{1cm}} = 0$
- Associative Property (+)
 $8 + (7 + 12) =$ _____
- Commutative Property (x)
 $34 \times 54 =$ _____